COLUMBIAN

Sledge-Tested VISES

ALL STEEL ONE PIECE ANVILS

Catalog 1901-A

EXPORT

The Columbian Hardware Co.

World's Largest Makers of Vises and Anvils

Cleveland, Ohio, U. S. A.

Method of Payment

All settlements are to be made
in New York exchange
or its equivalent

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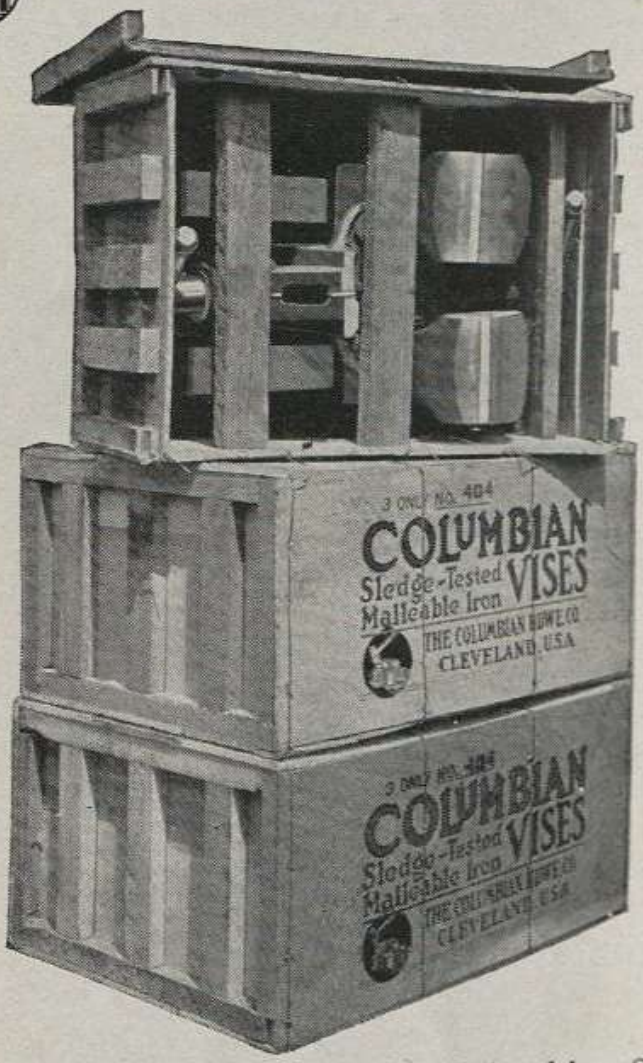
The Columbian Hardware Company

Manufacturers

Cleveland, Ohio, U. S. A.



AS befits a superior product, Columbian Sledge-Tested Vises are packed in strong but light wooden cases which protect the finish of the vises, make them easier to handle in the receiving and shipping departments, and conserve space in the dealer's stock room. Each case is plainly marked with the size and type of vise and the number of vises which it contains.

Every vise user knows that a carefully finished tool which is received in perfect condition without scratches or nicks, commands the unconscious respect of the workman and influences him to use the tool properly.

Columbian packing is, therefore, an advantage to the ultimate buyer. It is an additional guarantee of the superior quality which is claimed for Columbian Vises.

Columbian Sledge-Tested Vises

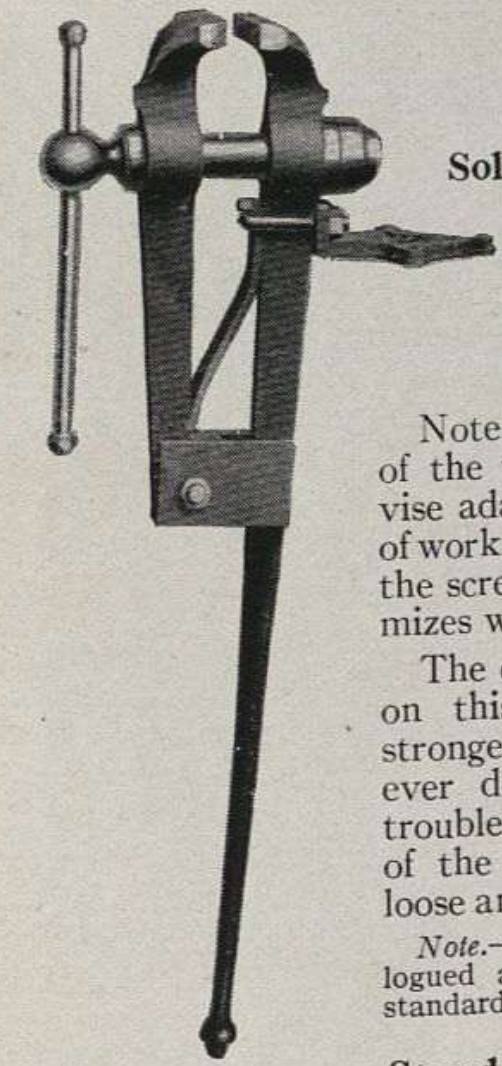
The Only Malleable Iron Vises Made

Twice As Strong.—Malleable iron has twice the strength of cast iron for a given section. Columbian Malleable Iron Vises are therefore better, stronger and lighter than cast iron vises, and will not chip, crack or break. Columbian Vises are made with cored or hollow jaws. This form of construction which makes possible the complete annealing and malleableizing of the iron, is patented and can only be used on Columbian Vises.

Removable, Renewable Jaw Faces.—All Columbian Vises used for metal working have removable jaw faces made of high grade tool steel. The tongue and groove construction is the strongest possible. Tapered screws, slightly countersunk, hold the faces tightly in place. Besides the advantage of being able to replace jaw faces that have worn smooth, the removable jaw faces can be replaced at any time by specially formed jaw faces for unusual or difficult shapes.

The corrugations of Columbian jaw faces are cut on a shaper in two directions. By this method we produce a jaw face that has a most efficient, even, perfect grip.

A Better Made Vise.—In every detail of construction Columbian Vises are superior. Screws are all made of cold-rolled steel. Handles and balls are forged from one piece so that the balls cannot come off, and the balls are so shaped that they do not wear or wedge into the screw-head. Between the screw-head and the vise there is a steel washer to take up wear, and on the inside there is a cone bearing which eliminates play between the jaw and screw.



Columbian
Solid-Box Wrought-Steel
Blacksmiths' Vise

Standard Type

Note the extraordinary depth of the throat which makes this vise adaptable to a larger range of work. The open end box makes the screw self cleaning and minimizes wear on the threads.

The close-coupled bench plate on this vise is the simplest, strongest, most rigid bench plate ever devised. It obviates the trouble experienced in the past of the gibs and keys becoming loose and perhaps getting lost.

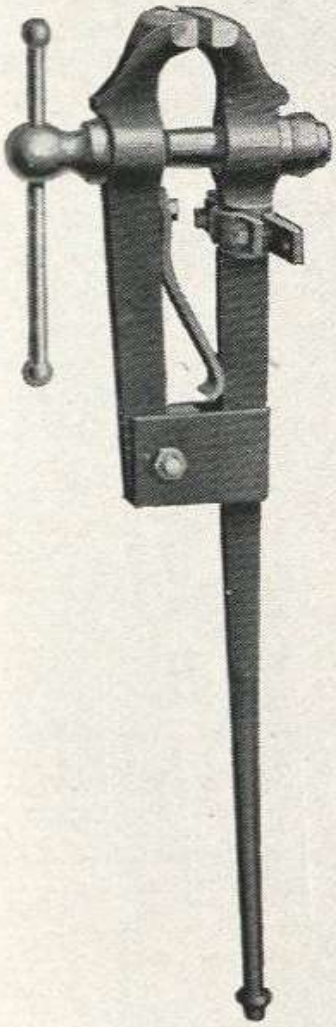
Note.—This vise was formerly catalogued as Series X but is now our standard blacksmiths' vise.

Standard List

Order by Number

No.	Weight Pounds Approx.	Length of Jaws	Depth from Top of Jaw to Top of Box	Vise Opens	List Each
25	25	3¼″	3¼″	3¾″	$12.00
30	30	3⅜″	3¼″	3¾″	11.00
35	35	4″	3¼″	3¾″	10.00
40	40	4″	3½″	4″	10.50
45	45	4¼″	3¾″	4¼″	11.00
50	50	4¼″	4¼″	4½″	11.50
60	60	4½″	4½″	5″	13.00
70	70	5″	4¾″	5¼″	15.00
80	80	5¼″	5″	5½″	17.50
90	90	5½″	5¼″	5¾″	20.00
100	100	6″	5½″	6″	22.00
115	115	6¼″	6″	6½″	25.00
125	125	6½″	6″	6½″	27.50
150	150	7″	6½″	7″	36.00
180	180	7½″	7½″	8″	47.00
200	200	8″	7½″	8″	56.00

Extra parts shown on Page 7.



Columbian
Solid-Box Wrought-Steel

Blacksmiths' Swivel Vise

Series 5000

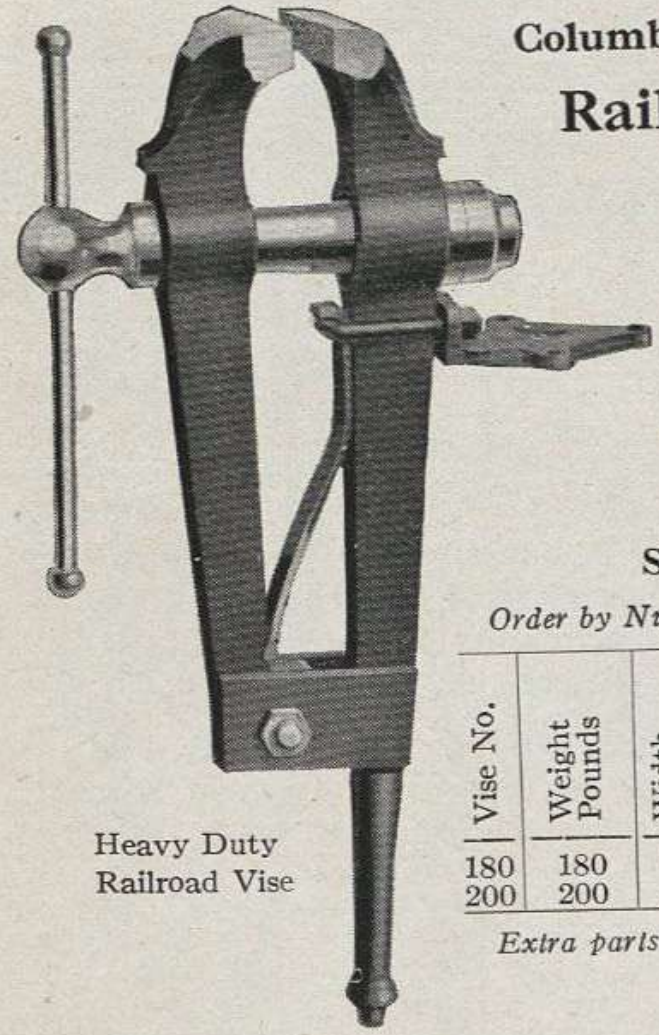
This vise is exactly the same as our Standard Blacksmith's Vise shown on the preceding page, with the addition of the swivel bench attachment which is preferred by many users and makes a more convenient vise for certain classes of work.

Standard List

Order by Number

No.	Weight Lbs. Approximate	Length of Jaws In.	List Each
5025	25	3¼	$12.00
5030	30	3⅜	11.00
5035	35	4	10.00
5040	40	4	10.50
5045	45	4¼	11.00
5050	50	4¼	11.50
5060	60	4½	13.00
5070	70	5	15.00
5080	80	5¼	17.50
5090	90	5½	20.00
5100	100	6	22.00
5115	115	6¼	25.00
5125	125	6½	27.50
5150	150	7	36.00
5180	180	7½	47.00
5200	200	8	56.00

Extra parts shown on Page 7.



Heavy Duty
Railroad Vise

Columbian Forged Steel

Railroad Vises

Series 180

This vise is especially designed and built for heavy work, and should be used when a heavy duty tool is required.

Standard List

Order by Number

Vise No.	Weight Pounds	Width Jaw Inches	Depth Top of Jaw to Top of Box	Open Inches	Standard List
180	180	7½	7½″	8	$47.00
200	200	8	7½″	8	56.00

Extra parts shown on page 7

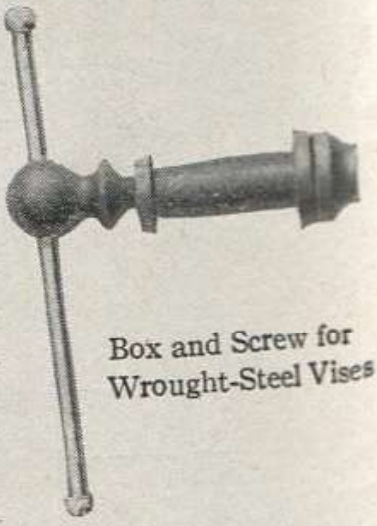
Boxes and Screws

For Solid-Box Wrought-Steel Vises

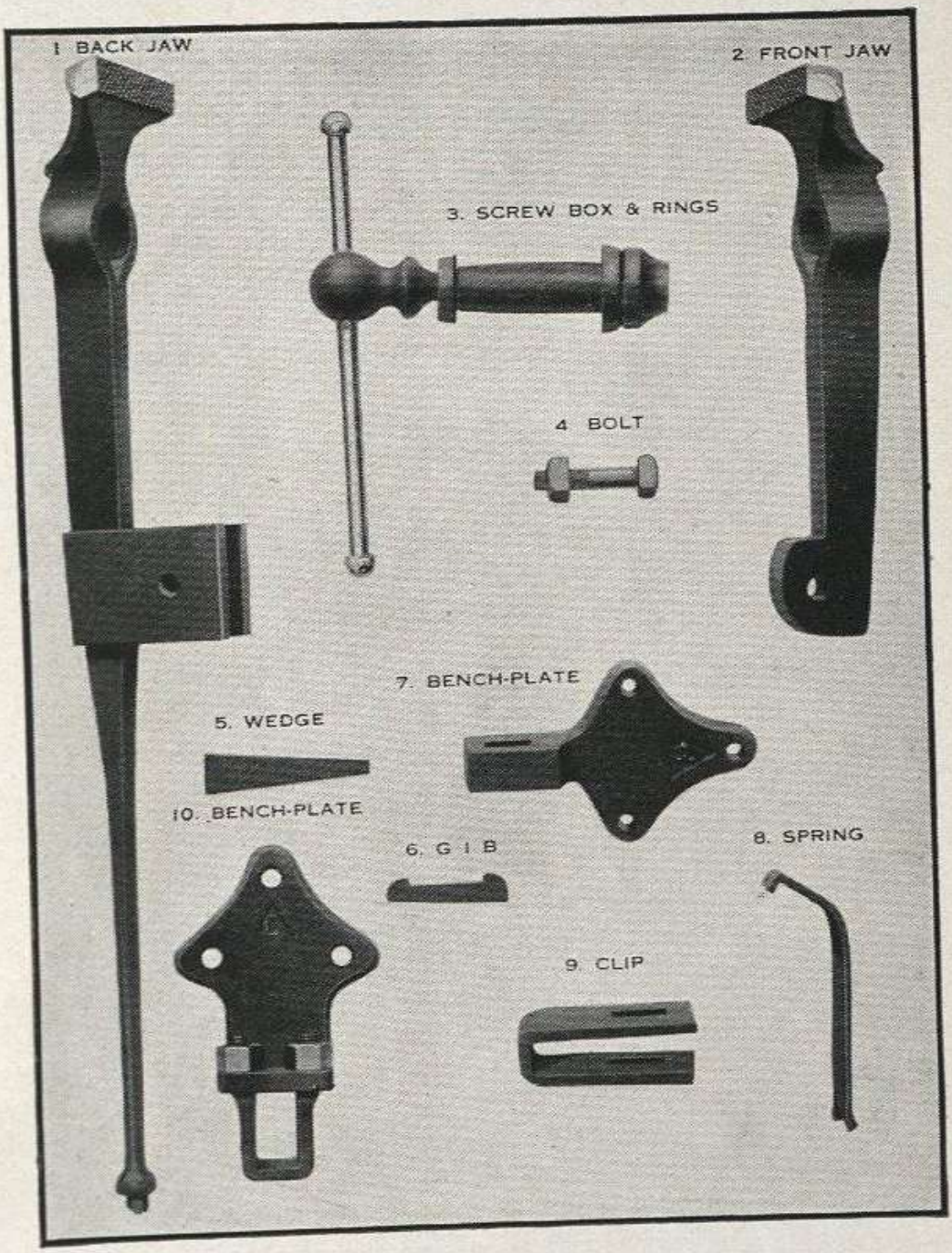
Standard List

Order by Number

Vise No.	Diameter Screw Inches	Size, Vise	List
1	1⅛	25 to 50	$ 3.50
2	1¼	60 to 70	4.00
3	1¼	80 to 90	4.50
4	1½	100 to 125	6.50
5	1¾	150 to 200	11.00

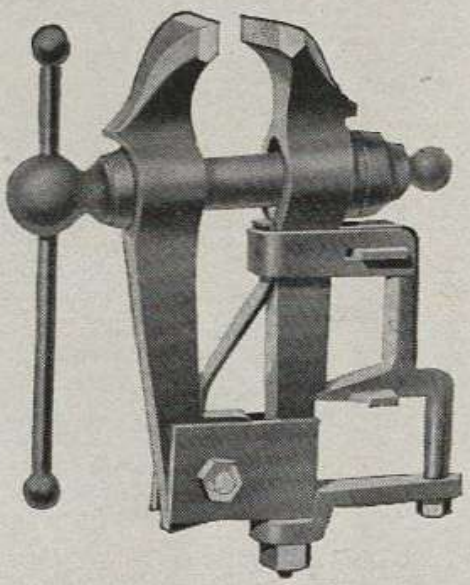


Box and Screw for
Wrought-Steel Vises



ABOVE are shown the parts used in Columbian forged steel leg vises. Note the extreme simplicity of Columbian leg vises. Any of the parts shown can always be obtained to replace broken or worn parts.

Columbian
Solid-Box Wrought-Steel
Arsenal Vise
Series 38

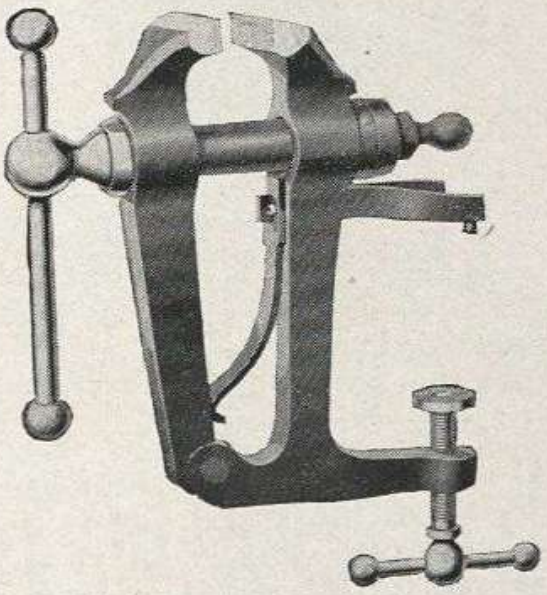


Order by Number

Vise No.	Weight Pounds	Length Jaw Inches	List Price
38	38	3¾	$25.00

DISCONTINUED

Columbian
Solid-Box Wrought-Steel
Saddletree Vise
Series 27



Order by Number

Vise No.	Weight Pounds	Length Jaw Inches	List Price
27	27	4	$20.00

DISCONTINUED

Columbian All-Steel

Anvils

Standard Pattern

All Columbian Anvils are made in one solid piece of crucible steel of such analysis as assures tough hard working surface.

The true mechanic recognizes that the anvil must be made from the best quality of steel to produce the necessary ring and rebound.

Scientific Design. The width of base is always equal to the height, thereby lowering the center of gravity, and insuring the rigidity necessary for securely fastening to block. The horn is long and rounded throughout its full length, and the tail is long. Large face surface, which is milled before tempering, and ground after tempering, so as to insure a perfect finish and rectangular edges.

Sizes

80 to 425 lbs.	Base
426 to 625 lbs.	½c per lb. extra net
626 to 800 lbs.	1c per lb. extra net
70 to 79 lbs.	½c per lb. extra net
60 to 69 lbs.	1c per lb. extra net
50 to 59 lbs.	2c per lb. extra net
40 to 49 lbs.	3c per lb. extra net
30 to 39 lbs.	5c per lb. extra net
20 to 29 lbs.	8c per lb. extra net
10 to 19 lbs.	15c per lb. extra net

Blacksmiths' Anvil Dimensions

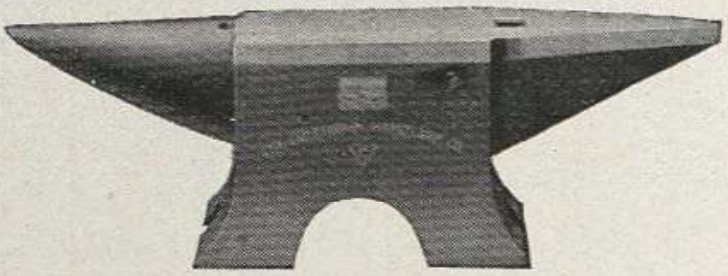
Order by Number

Size of Anvil Lbs.	Length Face	Width Face	Length Horn	Length Blight	Width Blight	Depth Below Face Blight	Size of Square Hole	Size of Round Hole	Height of Anvil
10	6½	1¾	3¼	13/16	1½	1/4	3/8	1/4	4 1/16
20	8	2¼	4	1	2	21/64	1/2	5/16	5
30	9¼	2½	4⅝	1 5/32	2¼	3/8	9/16	3/8	5 25/32
40	10¼	2¾	5⅛	1 9/32	2½	27/64	5/8	7/16	6 13/32
50	11	3	5½	1⅜	2 11/16	29/64	¾	7/16	6⅞
60	12	3	6	1½	2 11/16	1/2	¾	7/16	7½
70	12½	3¼	6¼	1 9/16	2 15/16	1/2	¾	7/16	7 15/16
80	13⅜	3¼	6 11/16	1 11/16	2 15/16	17/32	¾	7/16	8⅜
90	13¾	3½	6⅞	1 23/32	3⅛	9/16	⅞	7/16	8 9/16
100	14½	3½	7¼	1 13/16	3⅛	9/16	⅞	7/16	9⅛
110	14¾	3¾	7⅜	1 27/32	3⅜	9/16	⅞	7/16	9 3/16
120	15⅜	3¾	7 11/16	1 15/16	3⅜	21/32	1	½	9⅝
130	15⅞	3¾	7 15/16	2	3⅜	21/32	1	½	9 15/16
140	16	4	8	2	3½	21/32	1	½	10
150	16½	4	8¼	2 1/16	3½	11/16	1	½	10 5/16
160	17	4	8½	2⅛	3½	11/16	1	½	10⅝
175	17¼	4¼	8⅝	2 5/32	3¾	11/16	1	½	10¾
200	18	4½	9	2¼	4	¾	1⅛	⅝	11¼
225	19	4½	9½	2⅜	4	13/16	1⅛	⅝	11⅞
250	19½	4¾	9¾	2 7/16	4¼	13/16	1¼	¾	12 3/16
275	19¾	5	9⅞	2 15/32	4½	13/16	1¼	¾	12⅜
300	20½	5	10¼	2 9/16	4½	13/16	1¼	¾	12 13/16
325	20⅝	5¼	10 5/16	2 9/16	4¾	7/8	1⅜	⅞	12⅞
350	20¾	5½	10⅜	2 19/32	5	7/8	1⅜	⅞	13
375	21¼	5½	10⅝	2 21/32	5	7/8	1⅜	⅞	13¼
400	21½	5¾	10¾	2 11/16	5¼	7/8	1⅜	⅞	13 7/16
425	22¼	5¾	11⅛	2 25/32	5¼	15/16	1⅜	⅞	13⅞
450	22½	6	11¼	2 13/16	5½	15/16	1⅜	⅞	14 1/16
475	23	6	11½	2⅞	5½	15/16	1½	1	14⅜
500	24	6	12	3	5½	1	1½	1	15
525	24¼	6¼	12⅛	3 1/32	5½	1	1½	1	15⅛
550	24½	6¼	12¼	3 1/16	5½	1	1½	1	15 5/16
575	24¾	6½	12⅜	3 3/32	5¾	1	1½	1	15 7/16
600	25½	6½	12¾	3 3/16	5¾	1	1½	1	15 15/16

Columbian All-Steel

Double Horn Anvil

Series "S. A."



Order by Number

Weight Kilog.	Weight Pounds	Total Length Inches	Length of Horn Inches	Width of Face Inches	Length of Face Inches	Height Inches
9	20	13	4 1/8	3	4 3/4	4 1/2
15	33	16 1/4	5 1/4	3 1/4	5 3/4	4 3/4
20	44	18 3/8	5 3/4	3 9/16	6 7/8	5 3/8
25	55	19 7/8	6 1/4	3 7/8	7 3/8	5 3/4
30	66	21	6 5/8	4 1/8	7 3/4	6 3/16
35	77	21 7/8	7	4 3/8	7 7/8	6 1/2
40	88	22 3/4	7 3/8	4 9/16	8	6 7/8
45	99	23 5/8	7 11/16	4 3/4	8 1/4	7 3/16
50	110	24 1/2	8	4 15/16	8 1/2	7 1/2
55	121	25 1/4	8 1/4	5 1/8	8 3/4	7 3/4
60	132	26	8 1/2	5 3/8	9	8
65	143	26 5/8	8 11/16	5 1/2	9 1/4	8 1/8
70	154	27 1/4	8 15/16	5 5/8	9 3/8	8 1/2
90	198	29 1/2	10	6 1/4	9 1/2	9
100	220	30	10 1/4	6 7/8	9 1/2	10 1/4
125	275	31 1/2	10 5/8	7 1/2	10 1/4	10 5/8
150	330	33	11	7 3/4	11	11
185	407	33 3/4	11 1/2	8 1/8	11 3/8	11 3/8

Columbian All-Steel

Double Horn Anvil

Series "F"

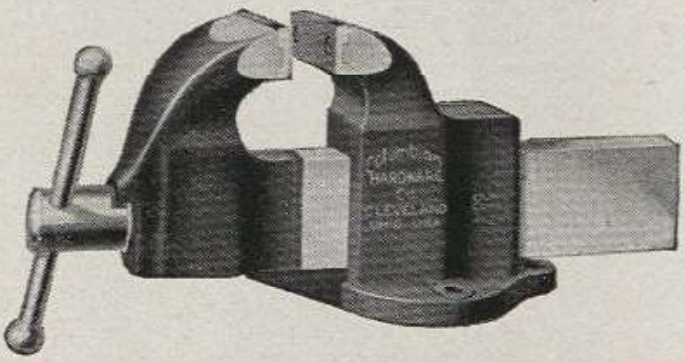
Order by Number

Weight Kilog.	Weight Pounds	Total Length Inches	Length of Horn Inches	Width of Face Inches	Length of Face Inches	Height Inches
40	88	20½	6⅝	4	7	7¾
50	110	21⅝	7	4⅜	7⅝	8¼
100	220	29	9⅝	6	9¾	10½
140	310	31½	10½	6⅜	10½	10⅞
180	397	34½	11½	6¾	11½	12⅛

Columbian

Malleable Iron Machinists' Vise

Series 500



Solid Jaw, Stationary Base

Practically an indestructible vise made from high grade malleable iron. It has removable jaw faces made of high grade tool steel. The screw and handle are cold rolled steel. Ball ends are forged from the solid rod. The ball ends cannot come off and are so shaped that they will not wear or wedge into the screw-head.

Standard List

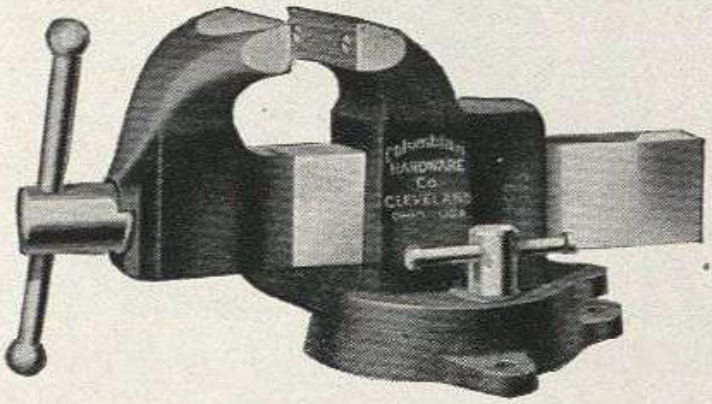
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Depth Opening Jaws Inches	Weight Pounds	List Price
502	2	3	2	9	$ 8.25
502½	2½	3½	2⅜	12	9.00
503	3	4½	2½	17	10.00
503½	3½	5	2¾	26	11.25
504	4	6	2⅞	33	12.75
504½	4½	7	3½	41	15.50
505	5	8	4	51	20.00
505½	5½	9	4	64	30.00
506	6	10	4¼	75	39.00
507	7	12	5¼	88	55.00
508	8	13	5½	150	75.00

Columbian

Malleable Iron Machinists' Vise

Series 600



Solid Jaw, Swivel Base

This vise is made from the same material and in exactly the same manner as our stationary base malleable iron vise, shown on preceding page. The effective swivel base arrangement allows the vise to be swung and quickly clamped in any desired position.

All vises with larger than 6-inch jaw, furnished with two swivel clamping-nuts.

Standard List

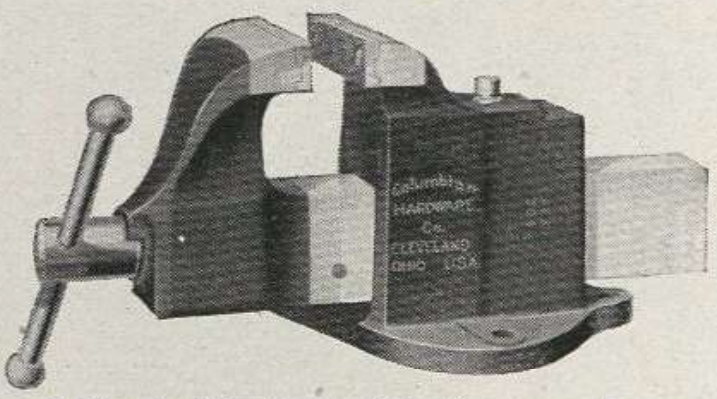
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Depth Opening Jaws Inches	Weight Pounds	List Price
602	2	3	2	12	$10.50
602½	2½	3½	2⅜	15	12.00
603	3	4½	2½	22	13.00
603½	3½	5	2¾	33	15.00
604	4	6	2⅞	40	17.00
604½	4½	7	3½	49	20.00
605	5	8	4	59	30.00
605½	5½	9	4	74	38.00
606	6	10	4¼	90	52.00
607	7	12	5¼	103	70.00
608	8	13	5½	145	98.00

Columbian Adjustable Jaw

Malleable Iron Machinists' Vise

Series 300



Adjustable Jaw, Stationary Base

The design of the adjustable jaw vise is such that it is just as strong as the solid jaw vise. By removing the pin from the back jaw it will swivel to any required position, gripping irregular or tapered work securely.

This vise will stand up under the roughest machine-shop usage, and is indispensable in a tool room where fine work is to be done.

Standard List

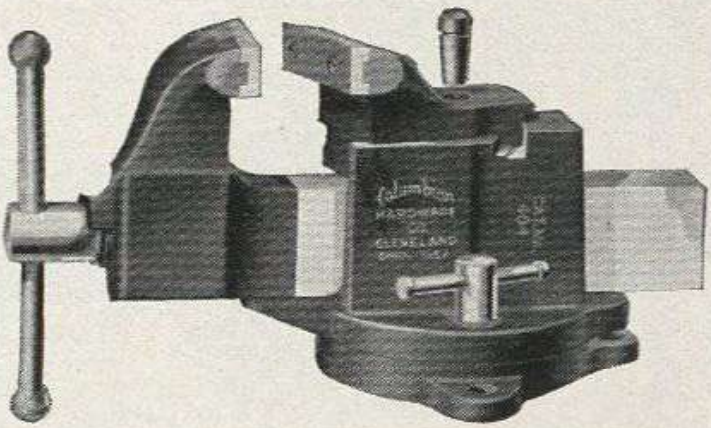
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
302	2	2½	13	$11.50
302½	2½	3	17	13.50
303	3	4	24	15.00
303½	3½	4¾	28	16.00
304	4	5¼	42	19.00
304½	4½	6	52	22.00
305	5	7½	78	28.00
305½	5½	9	97	35.00
306	6	9½	140	50.00
307	7	11	180	65.00
308	8	12	270	90.00

Columbian Adjustable Jaw

Malleable Iron Machinists' Vise

Series 400



Adjustable Jaw, Swivel Base

The adjustable jaw and general construction of this vise are the same as Series 300, with the addition of the swivel base.

The base swivels easily to any required position. Vises with smooth faced jaws can be furnished when desired, without additional cost to the purchaser.

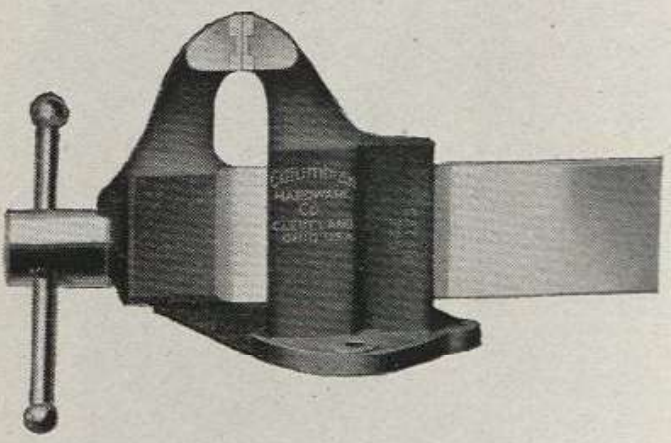
Standard List

Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
402	2	2½	15	$13.50
402½	2½	3	22	16.00
403	3	4	30	17.50
403½	3½	4¾	44	20.00
404	4	5¼	52	24.00
404½	4½	6	66	28.00
405	5	7½	89	35.00
405½	5½	9	115	44.00
406	6	9½	168	60.00
407	7	11	205	75.00
408	8	12	300	105.00

Columbian

Filers' Vise



Stationary Base

The Filers' Vise is a very convenient tool in a shop where there is much filing or particular finishing to be done.

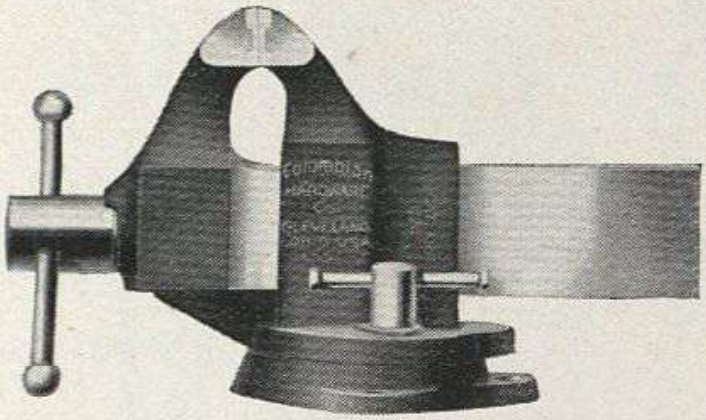
Standard List

Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~724~~	~~4~~	~~5½~~	~~44~~	~~$14.50~~
~~724½~~	~~4½~~	~~6¼~~	~~55~~	~~16.50~~
725	5	7½	74	20.50

Columbian

Filers' Vise



Swivel Base

The swivel base style in the Filers' Vise possesses all the good features of the stationary base vise in this series, with the added convenience of an adjustable bottom.

Standard List

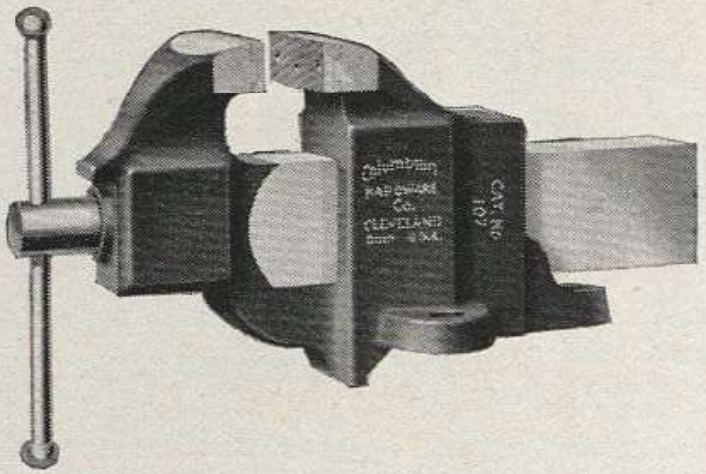
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~824~~	~~4~~	~~5½~~	~~51~~	~~$18.00~~
~~824½~~	~~4½~~	~~6¼~~	~~66~~	~~20.00~~
825	5	7½	94	28.00

Columbian

Heavy Chipping Vise

Series 107



Heavy Chipping Vise

This vise is designed especially for extra heavy work in railroad shops and steel mills. It is practically indestructible. The screw is cold rolled steel. The handle and balls are forged from one piece of steel.

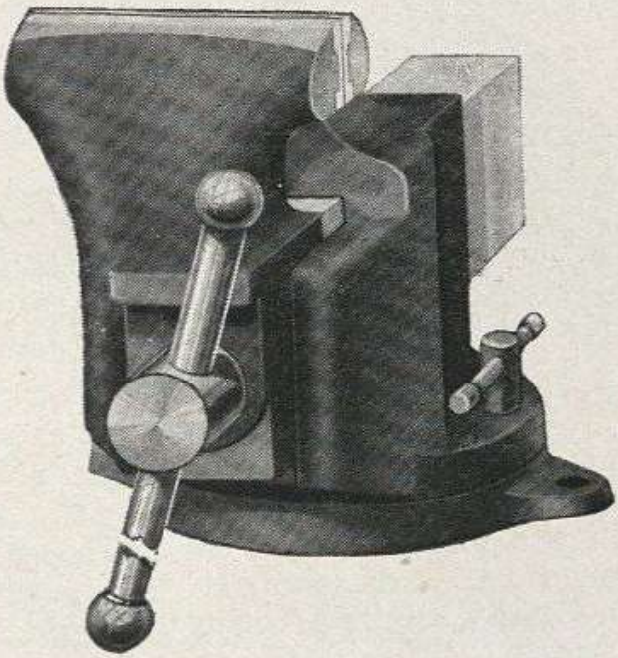
Standard List

Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
107	7	11½	218	$37.50
108½	8½	13	268	50.00

Columbian Machinists'

Off-Set Jaw Vise



Left-Hand Off-Set

For special work, the off-set jaw will be found of particular advantage.

Stationary Base, Standard List

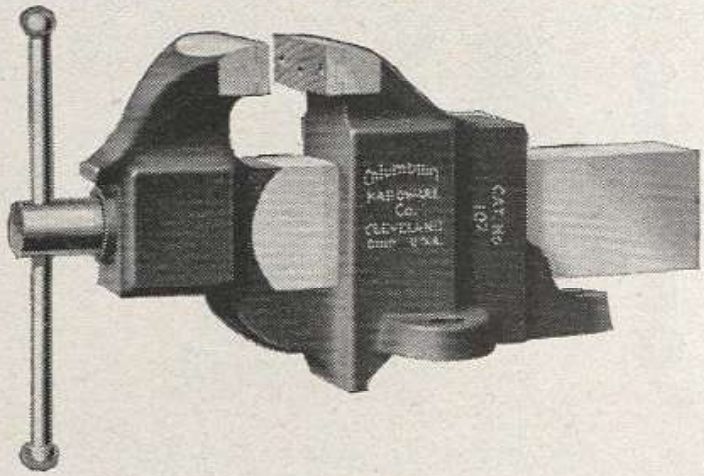
Order by Number

No.	Width Jaw Inches	Depth Opening Inches	Jaws Open Inches	List Price
156½	6½	4	8	$37.50
Swivel Base, Standard List				
256½	6½	4	8	$37.50

Columbian

Heavy Chipping Vise

Series 107



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Standard List

Order by Number

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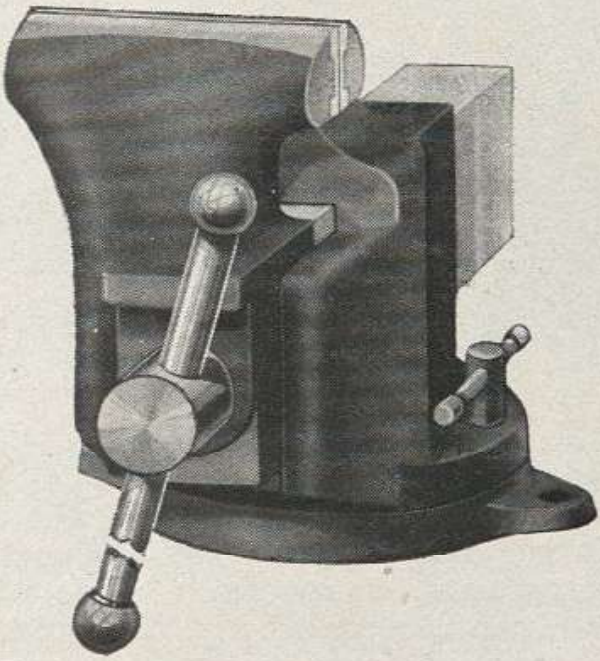
108½	8½	13	268	50.00

Columbian Machinists'

Off-Set Jaw Vise



Left-Hand Off-Set

For special work, the off-set jaw will be found of particular advantage.

Stationary Base, Standard List

Order by Number

No.	Width Jaw Inches	Depth Opening Inches	Jaws Open Inches	List Price
156½	6½	4	8	$37.50

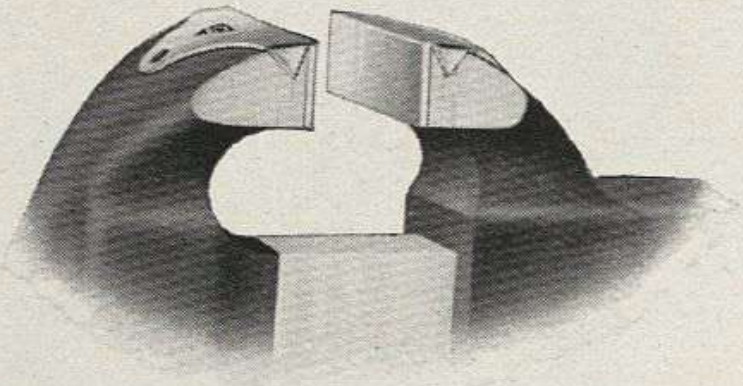
Swivel Base, Standard List

256½	6½	4	8	$37.50

Columbian

Extra Facings

For Vise Jaws



Occasion often demands the use of a perfectly smooth jaw-facing to prevent marring the article to be held in the vise, and for this purpose we can furnish extra caps, as shown above, which are quickly and easily applied to the vise jaws.

List Price, Per Pair

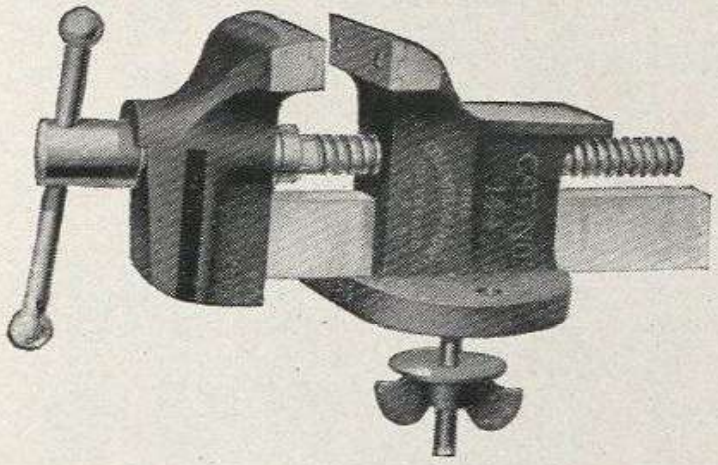
Order by Number

Width of Vise Jaws Inches	Lead	Brass	Copper
2	$ .45	$ .50	$ .55
2½	.45	.50	.60
3	.50	.55	.60
3½	.55	.60	.70
4 to 4¼	.60	.75	.85
4½ to 4⅝	.70	.80	.90
5, 5¼	.80	1.00	1.15
5½	.90	1.50	1.65
6	1.00	2.00	2.25
7	1.50	2.50	2.75
8	2.25	3.00	3.50
8½	2.75	3.50	3.75

Columbian Steel Bar

Garage and Household Vise

Jaws and Anvil Made of Malleable Iron



This vise has a base that can be used either stationary or to swivel, and is equipped with a specially hardened table to form an anvil back of the jaws. Being made of Malleable Iron, the anvil will not chip. The sliding Bar is of Solid Wrought Steel. A very serviceable vise at a low price.

Standard List

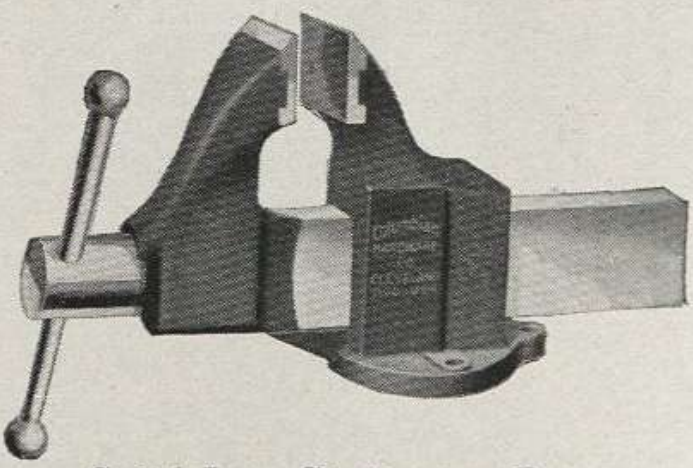
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
143	3	3½	12	$ 5.00
144	4	6	24	8.25

Columbian

Malleable Iron Bodymakers' and Coachmakers' Vise

Series 120



Solid Jaw, Stationary Base

In designing this vise, we made a close and careful study of the needs of the bodymaker, coachmaker and general shop requirements. The Columbian design is right. It is strong, reliable and as well-made as our general machinist vise.

The tool-steel faces are heavy and wide.

Standard List

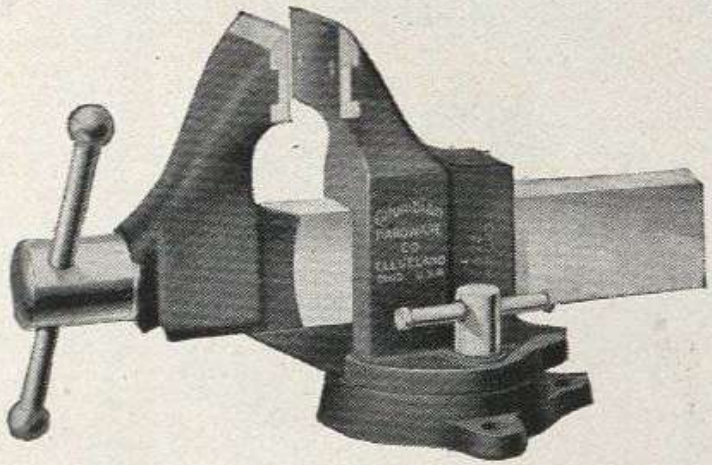
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~124~~	~~4~~	~~9~~	~~47~~	~~$15.00~~
124½	4½	11	60	17.50

Columbian

Malleable Iron Bodymakers' and Coachmakers' Vise

Series 220



Solid Jaw, Swivel Base

This vise is fitted with our regular clamp-nut design of swivel base. In all other respects it is the same as Series 120.

Standard List

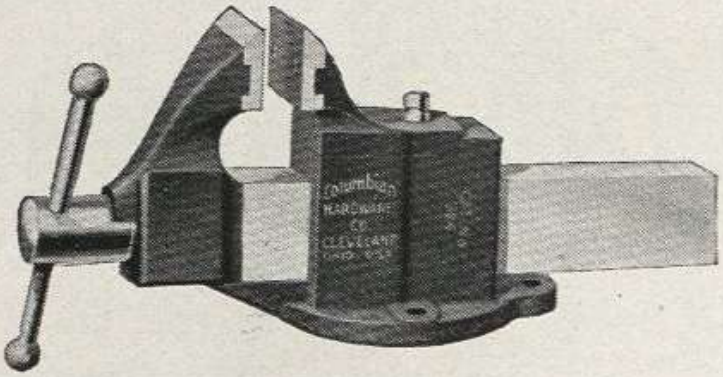
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~224~~	~~4~~	~~9~~	~~53~~	~~$20.00~~
224½	4½	11	64	22.50

Columbian

Malleable Iron Bodymakers' and Coachmakers' Vise

Series 320



Adjustable Jaw, Stationary Base

This vise is the same as Series 120 with the addition of the adjustable jaw.

Standard List

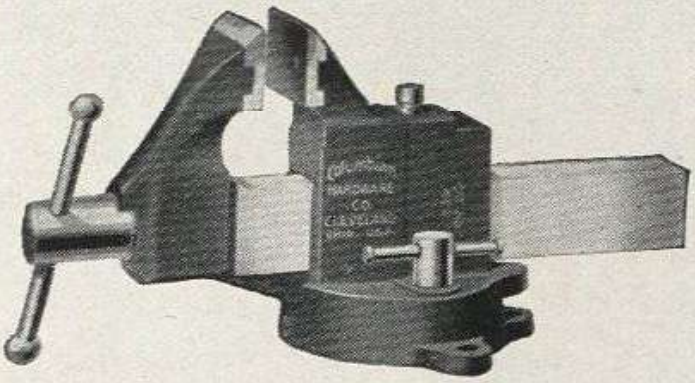
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~324~~	~~4~~	~~7~~	~~46~~	~~$21.00~~
324½	4½	9½	60	25.00

Columbian

Malleable Iron Bodymakers' and Coachmakers' Vise

Series 420



Adjustable Jaw, Swivel Base

This vise combines the adjustable jaw of Series 320 and the swivel base of Series 220.

Standard List

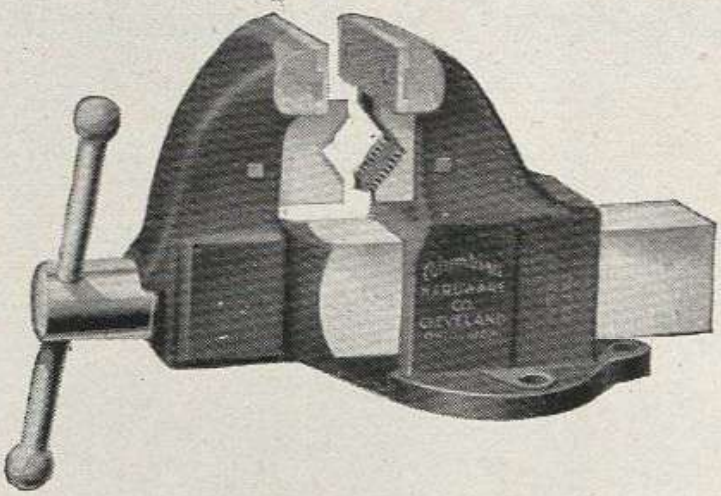
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
~~424~~	~~4~~	~~7~~	~~48~~	~~$25.00~~
424½	4½	10	72	30.00

Columbian

Malleable Iron Combination Pipe Vise

Series 100



Stationary Base

This is a combination vise, embodying the best principles of a standard machinist vise with the convenience of a set of pipe-jaws.

Pipe-jaws are forged from high carbon steel with milled teeth, tempered to withstand the hardest usage, and the front pipe-jaw is made with two working ends so that it may be reversed when one end is worn.

Standard List

Order by Number

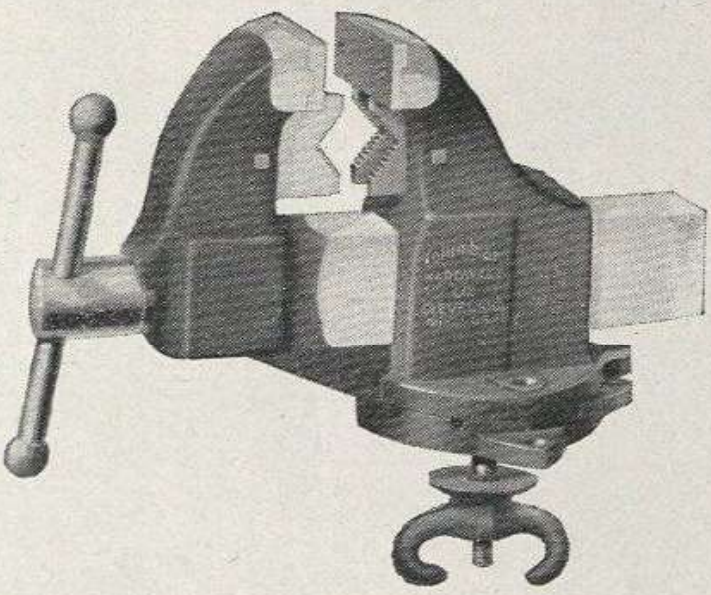
Vise No.	Width Jaw Inches	Holds Pipe Inches	Weight Pounds	List Price	Pipe Jaws per Set List Price
103½	3½	⅛ to 2½	41	$16.00	$1.50
104½	4½	⅛ to 3½	64	22.00	1.75
105	5	⅛ to 4½	100	32.00	2.00
106	6	⅛ to 6	151	45.00	3.00

DISCONTINUED

Columbian

Malleable Iron Combination Pipe Vise

Series 200



Swivel Base

This vise is the same as Series 100 with the addition of the swivel base.

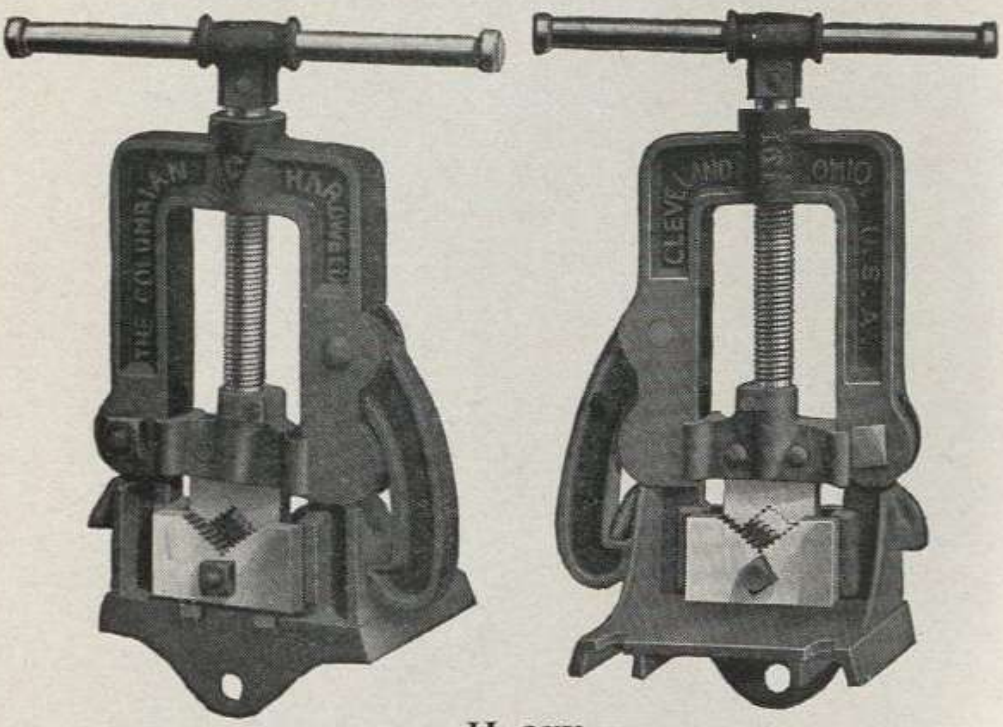
Standard List

Order by Number

Vise No.	Width Jaw Inches	Holds Pipe Inches	Jaws Open Inches	Weight Pounds	List Price	Pipe Jaws per Set List Price
203½	3½	⅛ to 2½	4	46	$16.00	$1.50
204½	4½	⅛ to 3½	5	70	22.00	1.75
205	5	⅛ to 4½	6¼	109	32.00	2.00
206	6	⅛ to 6	8¼	165	45.00	3.00

Columbian

Malleable Iron Hinged Pipe Vise



Heavy

Order by Number

Vise No.	Hold Pipe	List Price	Jaws per Set List Price
160	⅛ in. to 2	$ 4.25	$1.75
161	⅛ in. to 2½	6.00	1.75
161½	⅛ in. to 3½	9.00	2.50
162	⅛ in. to 4½	12.50	3.50
163	½ in. to 6	23.50	6.00

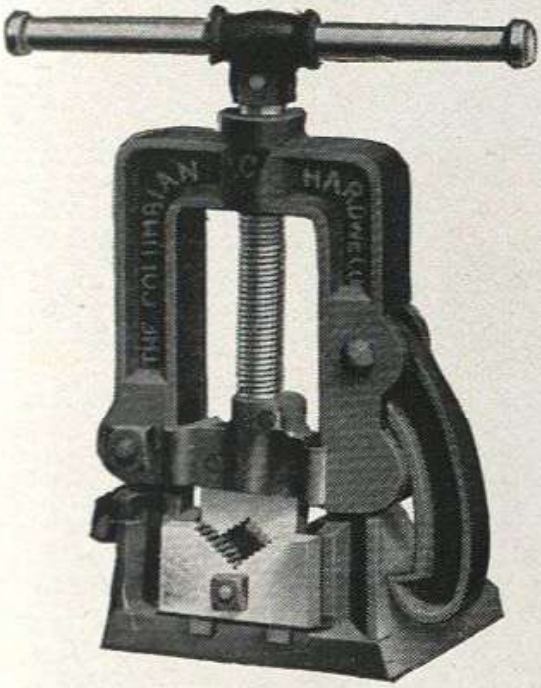
Standard

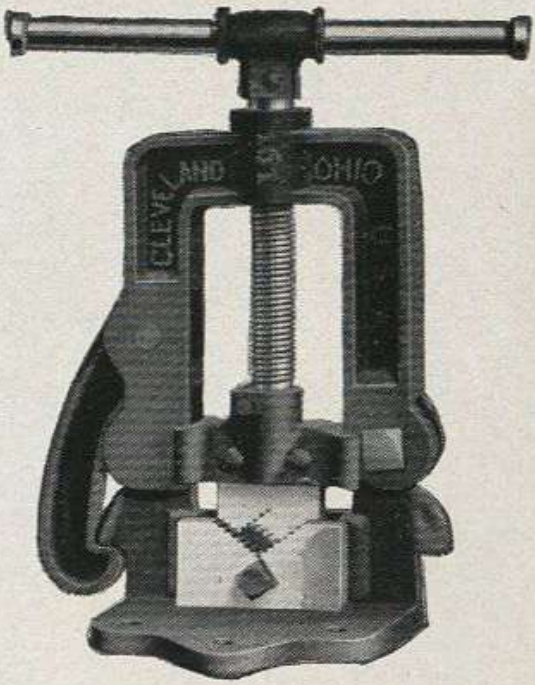
Order by Number

2600	⅛ in. to 1¼	$ 2.50	$1.20
260	⅛ in. to 2	4.25	1.75
261	⅛ in. to 2½	5.00	1.75
261½	⅛ in. to 3½	7.50	2.50
262	⅛ in. to 4½	11.00	3.50

Columbian

Malleable Iron Hinged Pipe Vise





Heavy

Order by Number

Vise No.	Hold Pipe	List Price	Jaws per Set List Price
160A	⅛ in. to 2	$ 4.25	$1.75
161A	⅛ in. to 2½	6.00	1.75
161½A	⅛ in. to 3½	9.00	2.50
162A	⅛ in. to 4½	12.50	3.50
163A	½ in. to 6	23.50	6.00

Standard

Order by Number

2600A	⅛ in. to 1¼	$ 2.50	$1.20
260A	⅛ in. to 2	4.25	1.75
261A	⅛ in. to 2½	5.00	1.75
261½A	⅛ in. to 3½	7.50	2.50
262A	⅛ in. to 4½	11.00	3.50

Columbian

Steamfitters' Vise

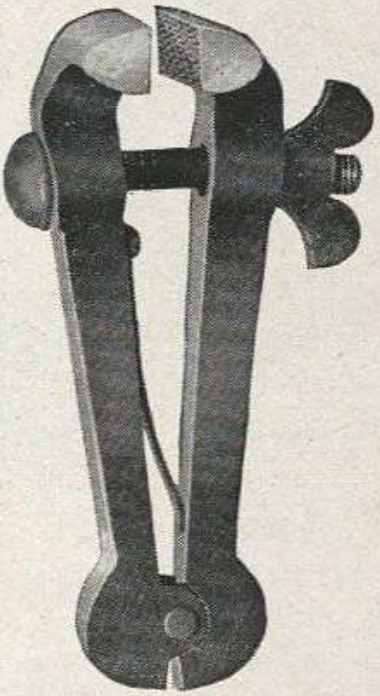
Standard List

Order by Number

Vise No.	Width Jaw Inches	Holds Pipe	Weight Pounds	List Price
745	5	⅜ to 6 in.	120	$18.00

Columbian

Forged Steel Hand Vise



A specially well-made forged vise for light work. Columbian quality throughout.

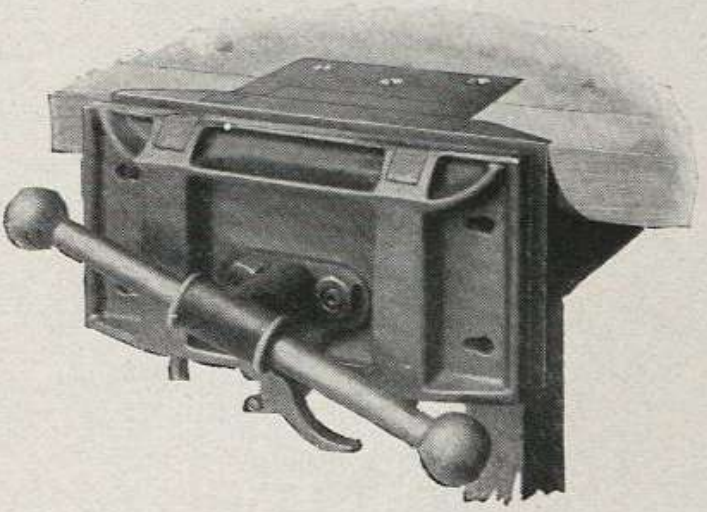
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Length Over All Inches	Weight Ounces	List Price
4	1¼	⅞	4	12	$ .95
5	1½	1	5	16	1.10
6	1¾	1¼	6	21	1.25

Columbian Universal

Wood-Workers', Cabinet Makers' and Manual Training Vises

Series 3A **Series 3B**



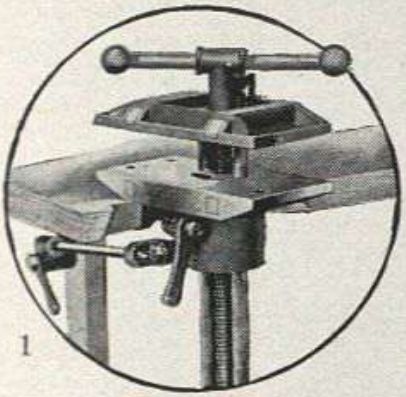
Standard List
Continuous Screw

Order by Number

Vise No.	Jaw Inches	Open Inches	Weight Pounds	List Price
3A	7x16	12	60	$16.00
4A	7x16	16	65	18.00
5A	7x16	20	70	19.50
6A	6x12	12	40	12.00
7A	6x12	16	43	13.50
8A	6x12	20	46	15.00
		Quick-Acting		
3B	7x16	12	65	$17.00
4B	7x16	16	70	19.50
5B	7x16	20	75	20.00
6B	6x12	12	42	14.00
7B	6x12	16	45	16.00
8B	6x12	20	49	17.00

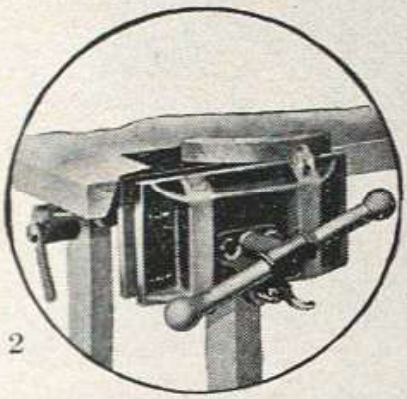
Columbian Universal Vises

In Various Positions



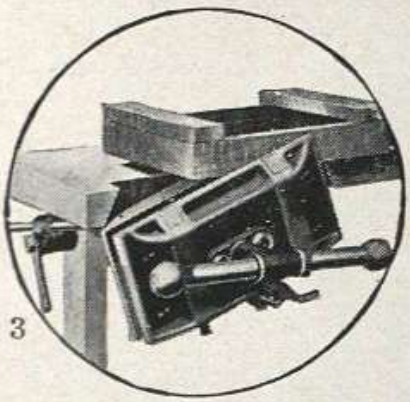
1

(1) In this view the hand-nut has been loosened, allowing the entire vise to be swung around on the hinge joint, so that the jaws are horizontal. This view shows clearly the hand-nut that loosens the sleeve, allowing the entire mechanism to rotate on the screw as an axis.



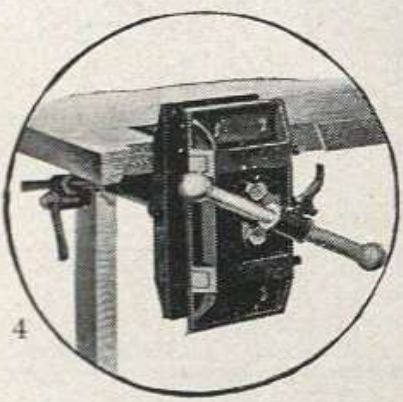
2

(2) Using the dogs to hold a curved segment. A light tap on the dog where it projects on the bottom, brings it up into place.



3

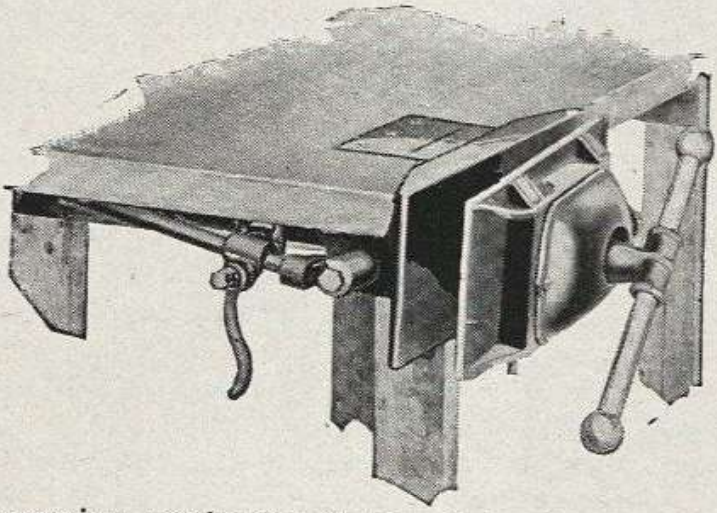
(3) With this vise swung at an angle, work can be conveniently held flat on the bench.



4

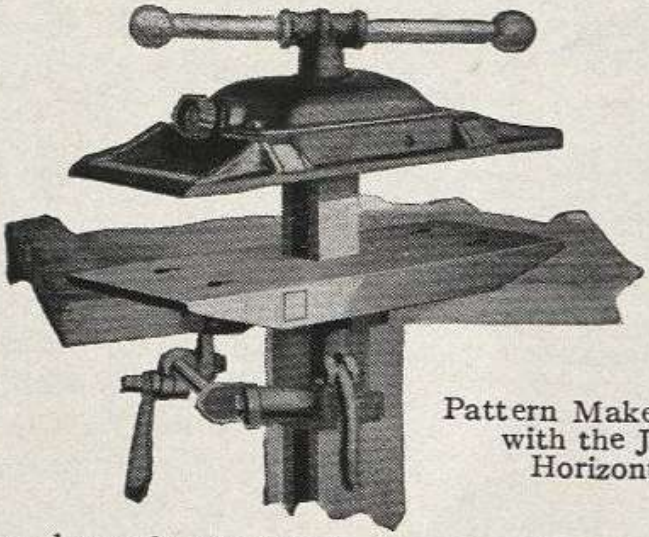
(4) The Columbian Universal Vise, rotated so that the ends of the jaws are above the bench level.

Columbian Universal
Pattern Makers' Vise
Series 1A



The taper-jaw mechanism is the distinctive feature of the Pattern Makers' vise.

This view shows the hinged joint behind the back jaw; at the left the rod and clamp arrangement controlling the swing of the vise are shown.



Pattern Makers' Vise with the Jaws Horizontal

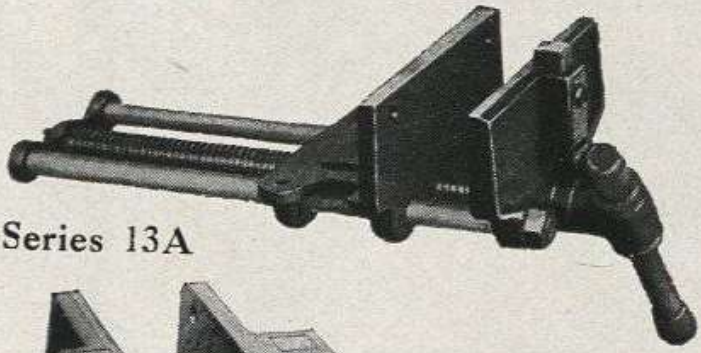
This view shows the vise swung around so that the jaws are horizontal. The screw controlling the taper jaw mechanism is shown at the left of the upper jaw.

Order by Number **Standard List**

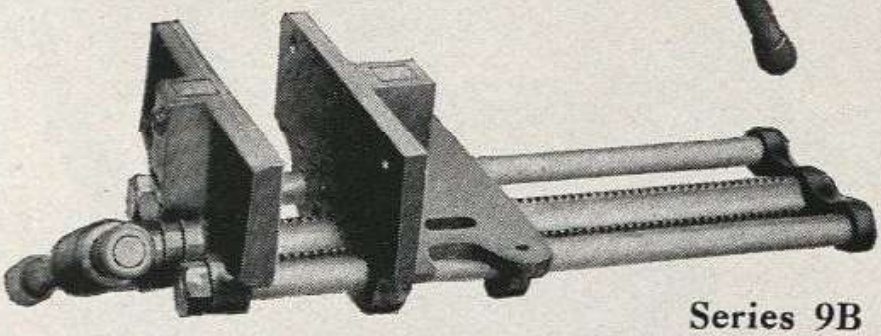
Vise No.	Jaw Inches	Open Inches	Weight Pounds	List Price
1A	7x18	14	80	$22.50
2A	7x18	18	83	26.00

Columbian

Manual Training and Wood-Workers' Vise



Series 13A



Series 9B

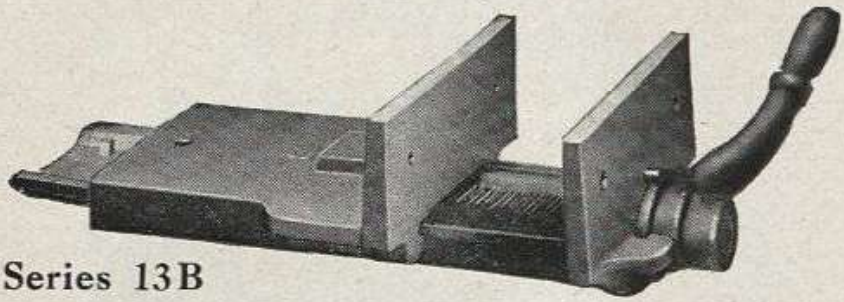
This is a well-constructed, heavy duty, general utility vise. The quick-acting mechanism in this vise follows the standard principle of the intercepted thread, so widely developed in breech-blocks of modern ordnance. With the handle at a certain angle, the jaw can be moved freely. A slight turn and the threads are locked, to tighten at will.

Standard List Continuous Screw

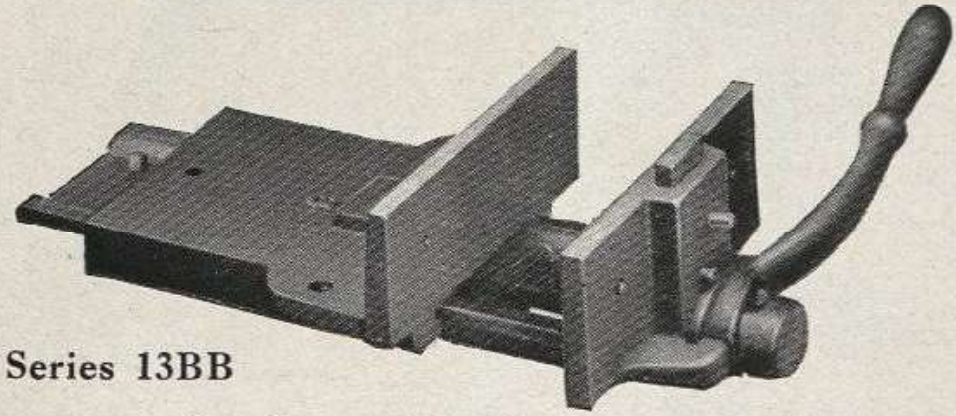
Order by Number

Vise No.	Width Jaw Inches	Jaws Open Inches	Weight Pounds	List Price
13A	4x10	12	36	$5.50
14A	4x10	16	38	6.50
15A	4x10	20	40	7.50
16A	4x10	24	42	8.50
Quick-Acting				
9B	4x10	12	36	$7.00
10B	4x10	16	38	8.00
11B	4x10	20	40	9.00
12B	4x10	24	42	10.00

Columbian
General Utility Vise



Series 13B



Series 13BB

For general home use, for manual training work, for carpenter shops, for auxiliary equipment in woodworking establishments of all kinds, this vise will prove of special value.

It is simply and sturdily built. The quick-acting, mechanism locking on a rack on an inclined block, and tightening by a cam arrangement on the hub of the handle, is simple and direct.

Standard List Quick-Acting Lever Vise

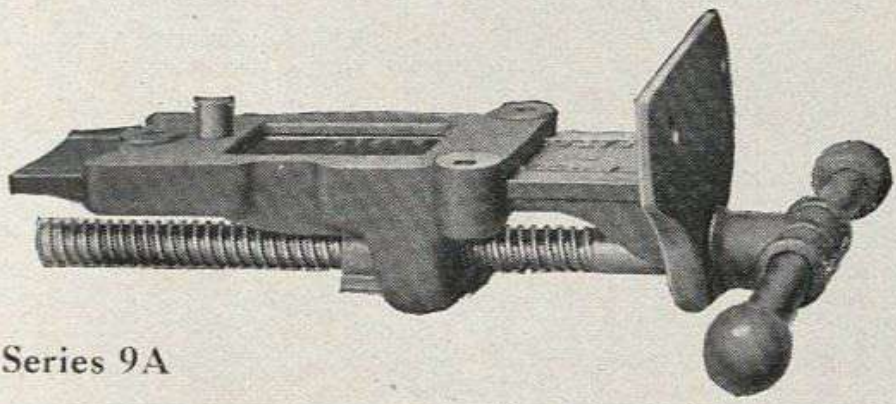
Order by Number

Vise No.	Jaw Inches	Open Inches	Weight Pounds	List Price
13B	3x 7	9	25	$6.00
14B	3x 7	12	27	6.50
15B	4x10	9	30	7.00
16B	4x10	12	33	8.00

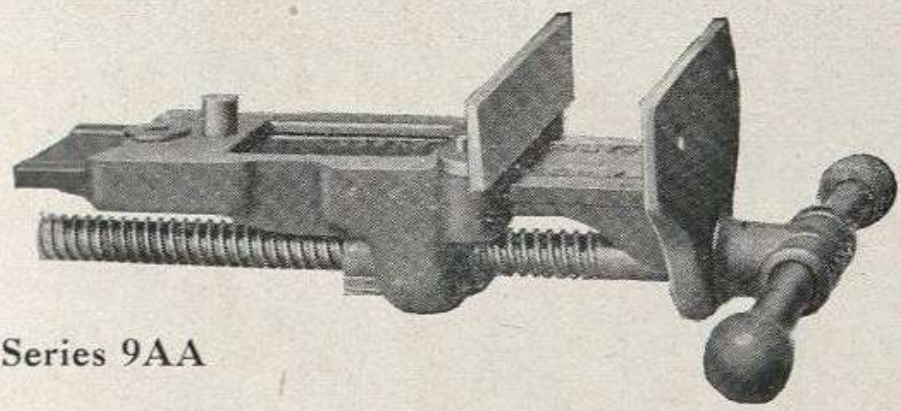
Quick-Acting Lever Vise with Dog

13BB	3x 7	9	26	$6.50
14BB	3x 7	12	28	7.00
15BB	4x10	9	31	7.50
16BB	4x10	12	34	8.50

Columbian
Manual Training and Cabinet-Workers' Vises



Series 9A



Series 9AA

Where it is necessary to provide equipment at minimum initial cost, this vise, simply, strongly and economically built, presents many advantages. The vise can be furnished either with or without a back-jaw, as shown.

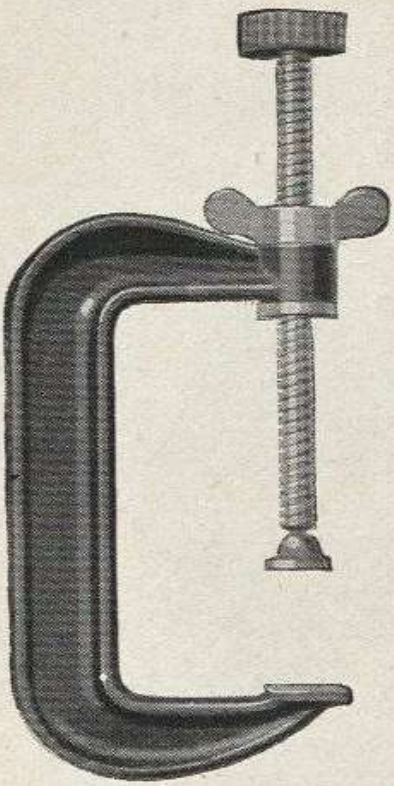
Standard List
Plain Continuous Screw without Back Jaw

Order by Number

Vise No.	Jaw Inches	Open Inches	List Price
9A	2x 7	9	$3.00
10A	3x10	12	4.00

Plain Continuous Screw with Back Jaw

9AA	2x 7	9	$4.00
10AA	3x10	12	5.00



Columbian

Non-Crawling Clamp

This clamp positively cannot crawl or cause the work to creep because the screw is not rotated in applying pressure. In setting this clamp you spin the knurled knob until the swivel screw-end is in contact with the work, then the knob is held stationary and the large wing nut is given a quarter turn in the opposite direction. This applies straight downward pressure on the screw but the screw cannot turn and so cannot crawl. The Columbian clamp economizes workmen's time and there is practically no breakage of clamps or screws.

Columbian Non-Crawling Clamps are drop-forged steel with cold-rolled steel screws, screw barrels and screw ends.

Standard List

Order by Number

Clamp No.	Capacity	Center of Screw to Back	Length of Screw	Diam. of Screw
2	2″	1¾″	4¾″	7/16″
3	3″	2″	5½″	7/16″
4	4″	2⅜″	6½″	5/8″
6	6″	3″	8½″	5/8″
8	8″	3⅜″	11″	¾″
10	10″	3¾″	13″	¾″
12	12″	4″	15″	¾″

Weight of Clamp	List Price Handle and Screw	List Price Clamp Complete	Proof Test
1 lb.	$ .30	$ .85	1800 lbs.
1 lb. 10 oz.	.35	1.00	2000 lbs.
2 lb. 6 oz.	.40	1.20	2500 lbs.
3 lb. 8 oz.	.50	1.65	3200 lbs.
5 lb.	.60	2.20	4000 lbs.
6 lb. 10 oz.	.75	2.75	5000 lbs.
8 lb. 6 oz.	1.00	3.75	6000 lbs.